

ABSTRACT

METHOD FOR DECODING DATA SEQUENCE ENCODED WITH AID OF BINARY CONVOLUTIONAL CODE

A data sequence consisting of K information bits that has been encoded with the help of a binary convolution code is decoded using a MaxLogMAP algorithm. In a first calculation operation, metric values are calculated accurately in a forwards and backwards direction in a trellis diagram and only some of the values are stored in a memory as interpolation points for an additional calculation operation. The additional calculation operation uses the interpolation points to accurately calculate the metric values that lie between the interpolation points of the first calculation operation. Soft output values are accurately determined for decoding after n operations.